Hes some	CF Errors Corrected by the STIC Sys ans Branch
Servai	Numb r: 09/50/,787  Changed a file from non-ASCII to ASCII  ENTERED
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
Ø	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.  Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
	Other:
	· · · · · · · · · · · · · · · · · · ·

<sup>\*</sup>Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

Application No.:

## NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAIN NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

B	. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
IAL.	t. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
M	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, th content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of th "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Δn	inlicant Must Provide:

An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact

For Rules Interpretation, call (703) 308-4216 For CRF Submission Help, call (703) 308-4212

For Patentin software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

Input Set : A:\Pto.amc Output Set: N:\CRF3\05262000\I501787.raw 3 <110> APPLICANT: INSTITUT PASTEUR 5 <120> TITLE OF INVENTION: HYBRID PROTEINS THAT MIGRATE RETROGRADELY AND TRANSYNAPTICALLY INTO THE CNS 8 <130> FILE REFERENCE: B4001\_AD/CAL C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/501,787 C--> 11 <141> CURRENT FILING DATE: 2000-02-11 13 <150> PRIOR APPLICATION NUMBER: 60/055,615 14 <151> PRIOR FILING DATE: 1997-08-14 16 <150> PRIOR APPLICATION NUMBER: 60/065,236 17 <151> PRIOR FILING DATE: 1997-11-13 19 <160> NUMBER OF SEQ ID NOS: 16 21 <170> SOFTWARE: PatentIn Ver. 2.1 23 <210> SEQ ID NO: 1 24 <211> LENGTH: 49 25 <212> TYPE: DNA 26 <213> ORGANISM: Artificial Sequence 28 <220> FEATURE: 29 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 31 <220> FEATURE: 32 <221> NAME/KEY: misc\_feature 33 <222> LOCATION: (1)..(49) 34 <223> OTHER INFORMATION: sequence used to generate PCR fragments 36 <400> SEQUENCE: 1 49 37 cccccgggc caccatggtt ttttcaacac caattccatt ttcttattc 40 <210> SEQ ID NO: 2 41 <211> LENGTH: 18 42 <212> TYPE: DNA 43 <213> ORGANISM: Artificial Sequence 45 <220> FEATURE: 46 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 48 <400> SEQUENCE: 2 18 49 ctaaaccagt aatttctg 52 <210> SEQ ID NO: 3 53 <211> LENGTH: 25 54 <212> TYPE: DNA 55 <213> ORGANISM: Artificial Sequence 57 <220> FEATURE: 58 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 60 <400> SEQUENCE: 3 61 aattatggac tttaaaagat tccgc 64 <210> SEQ ID NO: 4 65 <211> LENGTH: 24 66 <212> TYPE: DNA 67 <213> ORGANISM: Artificial Sequence 69 <220> FEATURE: 70 <223> OTHER INFORMATION: Description of Artificial Sequence: primer 72 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/501,787

DATE: 05/28/2000

TIME: 15:07:21

DATE: 05/28/2000

TIME: 15:07:21

24

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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/501,787

144 <400> SEQUENCE: 10 145 tatgataaaa atgcatcttt agga RAW SEQUENCE LISTING DATE: 05/28/2000 PATENT APPLICATION: US/09/501,787 TIME: 15:07:21

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 RAW SEQUENCE LISTING
 DATE: 05/28/2000

 PATENT APPLICATION:
 US/09/501,787
 TIME: 15:07:21

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2 <222> LOCATION: (1)(1600)													
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224 using PCR													
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229 aagetggage teggtaceeg ggecace atg gtt ttt tea aca eea att eea ttt 114													
Met Val Phe Ser Thr Pro Ile Pro Phe													
1 · 5													
233 tot tat tot aaa aat otg gat tgt tgg gtt gat aat gaa gaa gat ata 162													
234 Ser Tyr Ser Lys Asn Leu Asp Cys Trp Val Asp Asn Glu Glu Asp Ile													
235 10 15 20 25													
237 gat gtt ata tta aaa aag agt aca att tta aat tta gat att aat aat 210													
238 Asp Val Ile Leu Lys Lys Ser Thr Ile Leu Asn Leu Asp Ile Asn Asn													
239 30 35 40													
241 gat att ata tca gat ata tct ggg ttt aat tca tct gta ata aca tat 258													
242 Asp Ile Ile Ser Asp Ile Ser Gly Phe Asn Ser Ser Val Ile Thr Tyr													
243 45 50 55													
245 cca gat gct caa ttg gtg ccc gga ata aat ggc aaa gca ata cat tta 306													
246 Pro Asp Ala Gln Leu Val Pro Gly Ile Asn Gly Lys Ala Ile His Leu													
247 60 65 70													
249 gta aac aat gaa tot tot gaa gtt ata gtg cat aaa gct atg gat att 354													
250 Val Asn Asn Glu Ser Ser Glu Val Ile Val His Lys Ala Met Asp Ile													
251 75 80 85													
253 gaa tat aat gat atg ttt aat aat ttt acc gtt agc ttt tgg ttg agg 402													
254 Glu Tyr Asn Asp Met Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg													
255 90 95 100 105													
257 gtt cct aaa gta tct gct agt cat tta gaa caa tat ggc aca aat gag 450													
258 Val Pro Lys Val Ser Ala Ser His Leu Glu Gln Tyr Gly Thr Asn Glu													
259 110 251 110 251 115 251 115 251 115 120 120 120 120 120 120 120 120 120 120													
261 tat tea ata att age tet atg aaa aaa cat agt eta tea ata gga tet 498													
262 Tyr Ser Ile Ile Ser Ser Met Lys Lys His Ser Leu Ser Ile Gly Ser													
263 125 130 135 130 135													
265 qqt tgg agt gta tca ctt aaa ggt aat aac tta ata tgg act tta aaa 546													
266 Gly Trp Ser Val Ser Leu Lys Gly Asn Asn Leu Ile Trp Thr Leu Lys													
267 140 145 150													
269 gat too gog gga gaa gtt aga caa ata act ttt agg gat tta cot gat 594													
270 Asp Ser Ala Gly Glu Val Arg Gln Ile Thr Phe Arg Asp Leu Pro Asp													
271 155 160 165													
273 aaa ttt aat gct tat tta gca aat aaa tgg gtt ttt ata act att act 642													
274 Lys Phe Asn Ala Tyr Leu Ala Asn Lys Trp Val Phe Ile Thr Ile Thr													
274 bys the Ash Ala Tyr bet Ala Ash bys 11p val the 11e 11l 11e 11l 275 170 180 185													
277 aat gat aga tta tot tot got aat ttg tat ata aat gga gta ott atg 690													
278 Ach Ach Ard Lou Sor Sor Ala Ach Lou Tur Ilo Ach Clu Val Lou Mot													
278 Asn Asp Arg Leu Ser Ser Ala Asn Leu Tyr Ile Asn Gly Val Leu Met													
278 Asn Asp Arg Leu Ser Ser Ala Asn Leu Tyr Ile Asn Gly Val Leu Met 279 190 195 200 281 gga agt gca gaa att act ggt tta gga gct att aga gag gat aat aat 738													

RAW SEQUENCE LISTING DATE: 05/28/2000 PATENT APPLICATION: US/09/501,787 TIME: 15:07:21

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Output Set: N:\CRF3\05262000\I501787.raw

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285	ata	aca	tta	aaa	cta	gat	ада	tat	aat	aat	aat	aat	caa	tac	att	tct	786
						-	-	-									, , ,
	Tre	THE		rys	Leu	ASP	AIG	-	ASII	Asn	ASII	ASII		TAT	Val	ser	
287			220					225					230				
290	att	gat	aaa	ttt	agg	ata	ttt	tgc	aaa	gca	tta	aat	cca	aaa	gag	att	834
291	Ile	Asp	Lvs	Phe	Ara	Ile	Phe	Cvs	Lvs	Ala	Leu	Asn	Pro	Lvs	Glu	Ile	
292		235	-1-		5		240	-1-	-1-			245		-2-			
																	000
	_					-				ata				_	-		882
295	Glu	Lys	Leu	Tyr	Thr	Ser	Tyr	Leu	Ser	Ile	$\mathtt{Thr}$	Phe	Leu	Arg	Asp	Phe	
296	250					255					260					265	
298	taa	aaa	aac	cct	tta	cga	tat	gat	aca	gaa	tat	tat	tta	ata	cca	ata	930
										Glu							,,,,
	TTP	GIY	ASII	PIO		ALG	IÀT	ASP	1111		TAT	TÄT	Leu	TTE		val	
300					270					275					280		
302	gct	tct	agt	tct	aaa	gat	gtt	caa	ttg	aaa	aat	ata	aca	gat	tat	atg	978
303	Ala	Ser	Ser	Ser	Lys	Asp	Val	Gln	Leu	Lys	Asn	Ile	Thr	Asp	Tyr	Met	
304				285	-	•			290	•				295	-		
	+ - +	++~	202		~~~		+ 00	+ - +		220	~~~		++~			+ - +	1026
										aac							1020
	Tyr	Leu		Asn	Ala	Pro	Ser		Thr	Asn	GIA	гàг		Asn	TTE	Tyr	
308			300					305					310				
310	tat	aga	agg	tta	tat	aat	gga	cta	aaa	ttt	att	ata	aaa	aga	tat	aca	1074
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										aaa							1122
315	Pro	Asn	Asn	Glu	Ile	Asp	Ser	Phe	Val	Lys	Ser	Gly	Asp	Phe	Ile	Lys	
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318	tta	tat	gta	tca	tat	aac	aat	aat	gag	cac	att	qta	aat	tat	cca	aaa	1170
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320					350					355					360		
322	gat	gga	aat	gcc	ttt	aat	aat	ctt	gat	aga	att	cta	aga	gta	ggt	tat	1218
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	ASII	Ата		GIY	116	PIO	Leu		цув	Lys	mec	GIU		val	Lys	Leu	
328			380					385					390				
330	cgt	gat	tta	aaa	acc	tat	tct	gta	caa	ctt	aaa	tta	tat	gat	gat	aaa	1314
331	Arg	Asp	Leu	Lys	Thr	Tyr	Ser	Val	Gln	Leu	Lys	Leu	Tyr	Asp	Asp	Lys	
332	•	395		-		-	400				-	405	-	-	_	-	
	aat		tot	tta	απa	cta		aat	200	cat	aat		caa	ata	aac	220	1362
																	1302
		Ald	ser	Leu	GIY		vai	GIY	THE	His		GIY	GIII	116	ĢТĀ		
336	410					415					420					425	
338	gat	cca	aat	agg	gat	ata	tta	att	gca	agc	aac	tgg	tac	ttt	aat	cat	1410
339	Asp	Pro	Asn	Arq	qzA	Ile	Leu	Ile	Ala	Ser	Asn	Trp	Tvr	Phe	Asn	His	
340	•			,	430					435		-	•		440		
	++ -	222	ma+	222		++-	~~~	+~+	~ a +		+ 2 0	+++	a+ =	aat		ant.	1/50
										tgg							1458
	ьeu	ьуs	Asp	-	rre	Leu	GTA	Cys	-	Trp	Tyr	Phe	٧aı		Thr	Asp	
344				445					450					455			
347	gag	gga	tgq	aca	aat	gat	taaa	caga	att o	atat	gtto	a to	acat	atq	2		1506
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VERIFICATION SUMMARY

DATE: 05/28/2000 TIME: 15:07:22

PATENT APPLICATION: US/09/501,787

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1644

RAW SEQUENCE LISTING DATE: 05/18/2000 PATENT APPLICATION: US/09/501,787 TIME: 14:43:12

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Does Not Comply Corrected Diskette Needed

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5 <120> TITLE OF INVENTION: HYBRID PROTEINS THAT MIGRATE RETROGRADELY AND
6 TRANSYNAPTICALLY INTO THE CNS
8 <130> FILE REFERENCE: B4001_AD/CAL
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13 <150> PRIOR APPLICATION NUMBER: 60/055,615
14 <151> PRIOR FILING DATE: 1997-08-14
16 <150> PRIOR APPLICATION NUMBER: 60/065,236
17 <151> PRIOR FILING DATE: 1997-11-13
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     372 Asp Ile Ile Ser Asp Ile Ser Gly Phe Asn Ser Ser Val Ile Thr Tyr
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     387 Tyr Ser Ile Ile Ser Ser Met Lys Lys His Ser Leu Ser Ile Gly Ser
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RAW SEQUENCE LISTING DATE: 05/18/2000 PATENT APPLICATION: US/09/501,787 TIME: 14:43:12

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442 410 415 420 425
444 Asp Pro Asn Arg Asp Ile Leu Ile Ala Ser Asn Trp Tyr Phe Asn His
445 430 435 440 447 Leu Lys Asp Lys Ile Leu Gly Cys Asp Trp Tyr Phe Val Pro Thr Asp 448 445 450 450  $450~{
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m Gly}~{
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VERIFICATION SUMMARY

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PATENT APPLICATION: US/09/501,787

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:362 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:458 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16